

IN THE CLAIMS:

1. **(Currently Amended)** Device for handling banknotes, comprising a transporting system, an infeeding and outfeeding unit arranged along said transporting system, which unit is adapted to the infeed and outfeed of banknotes, an identifying unit arranged along said transporting system, as well as a first, second and so on to a last storage unit, being arranged along said transporting system, each one adapted to the storage of banknotes, with said device being adapted to an infeed of a banknote through said infeeding and outfeeding unit, a transportation of said banknote by means of said transporting system past said identifying unit, an identification of said banknote by means of said identifying unit, a transportation of said banknote to a storage unit intended for said banknote according to said identification, as well as an infeed of said banknote to said intended storage unit from said transporting system, ~~characterized in that~~ wherein said device comprises a central control unit_[,] adapted to communicate with a first local control unit arranged at said first storage unit, a second local control unit arranged at said second storage unit and so on to a last local control unit arranged at said last storage unit, a position sensor, as well as said identifying unit, ~~that~~ wherein said central and the respective local control unit have a common synchronous apprehension of the position of said transporting system, ~~that~~ wherein, when said identifying unit has identified a banknote_[,] and

when the position of the banknote in said transporting system is established by said position sensor, said central control unit communicates the position of said banknote to the local control unit intended for said identified banknote, and ~~that~~ wherein said intended local control unit directs the storage unit associated therewith to an infeed, being independent of other units, of said banknote from said transporting system to said storage unit when the banknote reaches said intended storage unit.

2. **(Currently Amended)** Device according to claim 1, ~~characterized in that~~ wherein the communication between said central control unit and intended local control unit takes place before said banknote reaches said first storage unit.

3. **(Currently Amended)** Device according to claim 1 ~~or 2~~, ~~characterized in that~~, wherein upon an outfeed of a banknote from said device, said central control unit is adapted to communicate to the local control unit associated with the storage unit that stores said banknote that said banknote should be fed out to said transporting system, ~~that~~ wherein said local control unit directs the storage unit associated therewith to an outfeed of said banknote to said transporting system, ~~that~~ wherein said banknote is transported by means of said transporting system to said infeeding and outfeeding unit, and ~~that~~ wherein said

infeeding and outfeeding unit feeds out said banknote from said transporting system and out of said device.

4. **(Currently Amended)** Device according to claim 3, ~~characterized in that~~ wherein, if said identifying unit is incapable of identifying a fed-in banknote with a particular certainty, said banknote is transported by means of said transporting system to said infedding and outfeeding unit, and ~~that~~ wherein said infedding and outfeeding unit feeds out said unidentified banknote from said transporting system and out of said device.

5. **(Currently Amended)** Device according to claim 3 ~~or 4~~, ~~characterized in that~~, wherein said infedding and outfeeding unit is adapted to feed in each banknote that is inserted in said device to said transporting system, and to feed out each banknote from said transporting system that by means of said transporting system reaches said infedding and outfeeding unit.

6. **(Currently Amended)** Device according to ~~claims 4 and 5~~, ~~characterized in that~~ claim 5, wherein said transporting system reverses back said banknote past said identifying unit for at least one additional transportation past said identifying unit for identification before said identifying unit is regarded to be incapable of identifying said banknote.

7. **(Currently Amended)** Device according to claim 3, characterized in ~~that wherein~~ an infeeding and outfeeding control unit, adapted to communicate with said central control unit, is arranged at said infeeding and outfeeding unit, ~~that wherein~~ said infeeding and outfeeding control unit has an apprehension of the position of said transporting system that is common to and synchronous with other control units, ~~that wherein~~ upon an outfeed of a banknote from said device, said central control unit is adapted to communicate to the local control unit associated with the storage unit that stores said banknote and to said infeeding and outfeeding control unit a position of said banknote in said transporting system, ~~that wherein~~ said local control unit directs the storage unit associated therewith to an outfeed of said banknote to said transporting system in said position, ~~that wherein~~ said banknote is transported by means of said transporting system to said infeeding and outfeeding unit, and ~~that wherein~~ said infeeding and outfeeding control unit directs said infeeding and outfeeding unit to an outfeed of said banknote from said transporting system and out of said device in said position.

8. **(Currently Amended)** Device according to claim 4 ~~and 7~~, characterized in ~~that 7~~, wherein a banknote is permitted to be transported around a plurality of turns, and accordingly a plurality of times past said identifying unit, for identification before said identifying unit is regarded to be incapable of identifying said banknote.

9. **(Currently Amended)** Device according to ~~any one of claim 7 or 8,~~
~~characterized in that~~ claim 8, wherein said central control unit, upon an
infeed of a banknote to said transporting system by means of said
infeeding and outfeeding unit, is adapted to communicate a position of
said infeed to said transporting system to said infeeding and outfeeding
control unit, and ~~that~~ wherein said infeeding and outfeeding control unit
directs said infeeding and outfeeding unit to an infeed of said banknote
into said device and to said transporting system in said position.

10. **(Currently Amended)** Device according to ~~any one of the~~
~~preceding claims, characterized in that~~ claim 9, wherein said central
control unit comprises a central index, which comprises a record of each
position associated with said transporting system, and ~~that~~ wherein said
index contains information about whether the respective position in the
transporting system carries a banknote or not.

11. **(Currently Amended)** Device according to ~~any one of the~~
~~preceding claims, characterized in that~~ claim 9, wherein said transporting
system is allocated positional locations of a mutual distance that in any
position permits a transportation of at least a banknote being largest in
physical size of the banknotes that may be present in said banknote
handling.

12. **(Currently Amended)** Device according to ~~any one of the preceding claims, characterized in that~~ claim 9, wherein said infeeding and outfeeding unit and the respective storing unit are adapted to an infeed and outfeed of banknotes taking place synchronously with the motion of said transporting system.

13. **(Currently Amended)** Device according to ~~any one of the preceding claims, characterized in that~~ claim 9, wherein said central control unit is adapted to be able to read the apprehension of the respective local control unit, and of said ingoing and outgoing control unit upon the presence of such a one, regarding the position of said transporting system.

14. **(Currently Amended)** Device according to claim 13, characterized ~~in that~~ wherein said reading constitutes a part of a performance inspection carried out upon a stationary transporting system.

15. **(Currently Amended)** Device according to ~~any one of the preceding claims, characterized in that~~ claim 14, wherein an initiation of said device can take place by the fact that said central control unit is adapted to communicate a reference position of said transporting system to all other control units upon a stationary transporting system.

16. **(Currently Amended)** Device according to ~~any one of the~~
~~preceding claims, characterized in that~~ claim 14, wherein an update of
said device can take place by the fact that a current position of said
transporting system is communicated to all control units upon a new
position of said transporting system, ~~that~~ wherein said current position
can be communicated upon a transporting system in motion, and ~~that~~
wherein said communication takes place autonomously.

17. **(Currently Amended)** Device according to ~~claims 15 and 16,~~
~~characterized in that~~ claim 16, wherein said central control unit is adapted
to communicate the identical numerical value of the position of said
transporting system to all local control units upon said initiation and said
update, and ~~that~~ wherein said central control unit is adapted to calculate
and communicate relative position readings adapted to the respective
local storage unit upon the indication of the position of a banknote in said
transporting system.

18. **(Currently Amended)** Device according to ~~any one of the~~
~~preceding claims, characterized in that~~ claim 16, wherein said central
control unit communicates with other control units by means of a common
data link having low bandwidth requirements.

19. **(Currently Amended)** Device according to ~~any one of the~~
~~preceding claims, characterized in that~~ claim 16, wherein the respective

control unit comprises an index, which is adapted to be incremented in order to always represent the current position of said transporting system, ~~that~~ wherein the respective index is adapted to handle positions that exceed a number of turns around said transporting system, ~~that~~, wherein when the respective index is incremented from the maximum value thereof, the respective index gets the value of 0 (zero), and ~~that~~ wherein all calculations are made modulo the maximum value of the respective index + 1.

20. **(Currently Amended)** Device according to claims ~~15 and 19~~, characterized in ~~that~~ claim 19, wherein the instantaneous position of said transporting system in operation is communicated to the respective control unit by means of a transfer mechanism adapted to utilize two signals in quadrature, and ~~that~~ wherein a third signal is used for the zero setting of the respective index upon an initiation of said device.

21. **(Currently Amended)** A first computer programme product, characterized in ~~that said first computer programme product comprises~~ comprising a computer programme code that, when it is executed by a computer, brings said computer to act as a central control unit associated with a device according to ~~any one of claims 1 to 20~~ claim 1.

22. **(Currently Amended)** A second computer programme product, characterized in ~~that said second computer programme product comprises~~

which comprises a computer programme code that, when it is executed by a computer, brings said computer to act as an infeeding and outfeeding control unit associated with a device according to ~~any one of claims 7 to 20~~ claim 7.

24. **(Currently Amended)** A computer-readable medium, characterized ~~in that~~ comprising a computer programme code according to ~~any one of claims 21, 22 or 23~~ is claim 23 stored on said computer readable medium therein.